rejected claims 9-10 under 35 U.S.C. 103(a) as being unpatentable over Nasir, in view of Dixon, and further in view of McMahon et al., U.S. Patent No. 5,166,078 ("McMahon").

For the reasons set forth below, Applicants traverse the claim rejections and request reconsideration.

I. Claim Rejections

With respect to the Examiner's rejections of the claims under § 103, Applicants submit that the Examiner has not established a *prima facie* case of obviousness. In particular, a *prima facie* case of obviousness requires the following three elements: (1) a prior art suggestion or motivation to modify the reference or to combine reference teachings; (2) a prior art teaching that the asserted modification or combination would have a reasonable expectation of success; and (3) the prior art reference or references must teach or suggest all the claim limitations. *See* MPEP § 2143. However, the Examiner has not established any of these three elements.

With respect to element (1), independent claims 1 and 11 recite a "tracer comprising an aflatoxin oxime conjugated to a fluorophore:" The Examiner's position is that Dixon teaches converting aflatoxin B1 to aflatoxin B1-oxime when testing for aflatoxins because the aflatoxin B1 lacks the necessary functional group for conjugation to a label. In fact, Dixon teaches converting aflatoxin B1 to an oxime for conjugation to bovine serum albumin (BSA) and ovalbumin (OA). Thus, Dixon does not teach conjugating an aflatoxin oxime to a fluorophore, as recited in claims 1 and 11. Moreover, the Examiner has not identified any prior art suggestion or motivation for replacing the aflatoxin oxime conjugated to BSA or OA, as taught by Dixon, with an aflatoxin oxime conjugated to a fluorophore. Although the Examiner cites Nasir as teaching using fluorescence polarization to analyze mycotoxins in grains, the Examiner has

2

conceded that Nasir does not refer to aflatoxin specifically. As a result, Nasir does not provide

any suggestion or motivation to replace the BSA or OA in the aflatoxin oxime conjugate, taught

by Dixon, with a fluorophore.

With respect to elements (2) and (3), claims 1 and 11 recite that the tracer is able to bind

to an antibody specific for aflatoxin "to produce a detectable change in fluorescence

polarization." In particular, the Examiner has failed to identify any prior art teaching of a tracer

that has this special property. The Examiner has not identified any teaching that an aflatoxin

oxime conjugated to a fluorophore would still be able to bind to an antibody specific for

aflatoxin. Nor has the Examiner identified any teaching that any binding would produce a

detectable change in fluorescence polarization. In fact, Nasir teaches that even if binding occurs

little polarization shift may be observed, due to a phenomenon called the "propeller effect." See

Nasir, p. 180. In addition, as noted above, Dixon does not teach an aflatoxin oxime conjugated

to a fluorophore, and Nasir does not refer to aflatoxin at all. As a result, the Examiner has failed

to identify a prior art teaching of a tracer, comprising aflatoxin oxime conjugated to a

fluorophore, that has the property of being to able to an antibody specific to aflatoxin to produce

a detectable change in fluorescence polarization.

Accordingly, Applicants submit that claims 1 and 11 are allowable over the prior art of

record, including Dixon and Nasir. Applicants further submit that claims 2-10 and 12-18 are

also allowable as depending from allowable claims.

3

Information Disclosure Statement II.

The Examiner has noted that the list of information may not be incorporated into the

specification but must be submitted as a separate paper. However, Applicants had mailed an

Information Disclosure Statement, as a separate paper and with copies of the cited references, on

October 4, 2002, a few days before the Office Action was mailed. Thus, the Applicant's

Information Disclosure Statement and the Examiner's Office Action appear to have crossed in

the mail. Applicants expect that the Examiner has by now received the Information Disclosure

Statement. Accordingly, Applicants respectfully request the Examiner to consider each of the

references listed in the Information Disclosure Statement and to indicate such consideration.

CONCLUSION

Applicants submit that the present application is now in condition for allowance and

notice to that effect is hereby requested. Should the Examiner feel that further dialog would

advance the subject application to issuance, the Examiner is invited to telephone the undersigned

at any time at (312) 913-0001.

Respectfully submitted,

McDonnell Boehnen Hulbert &

Berghoff

Date: January 8, 2003

Richard A. Machonkin

Reg. No. 41,962